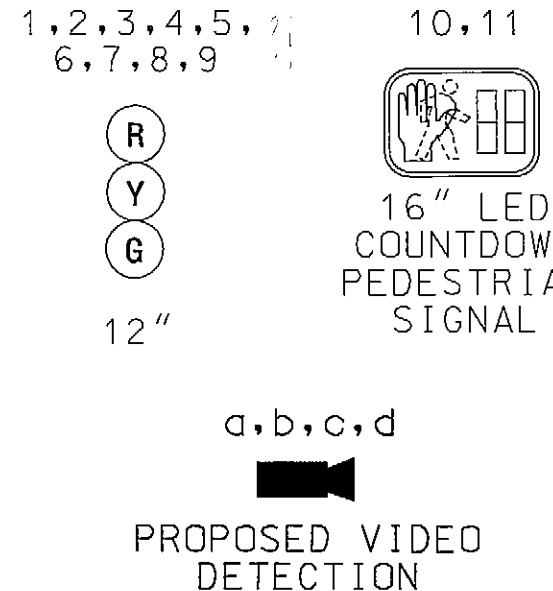
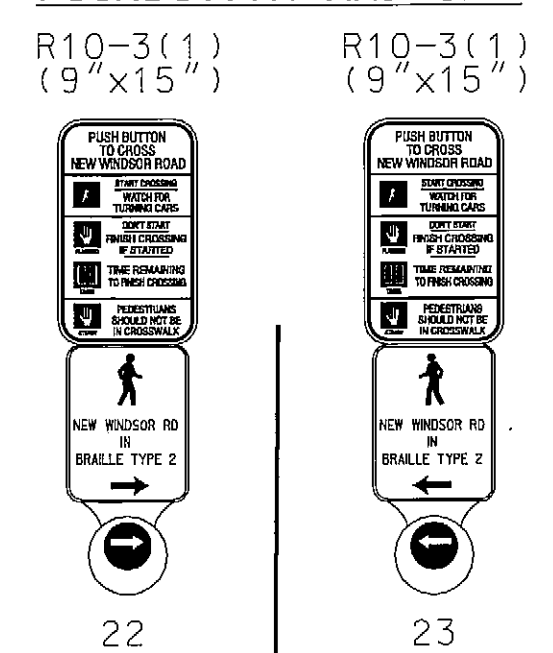


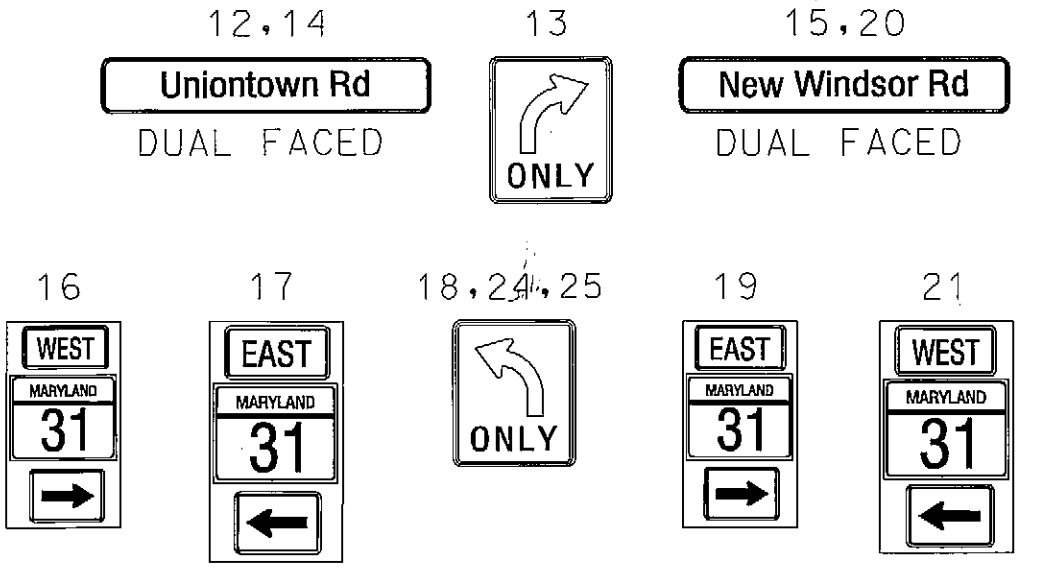
EXISTING SIGNALS



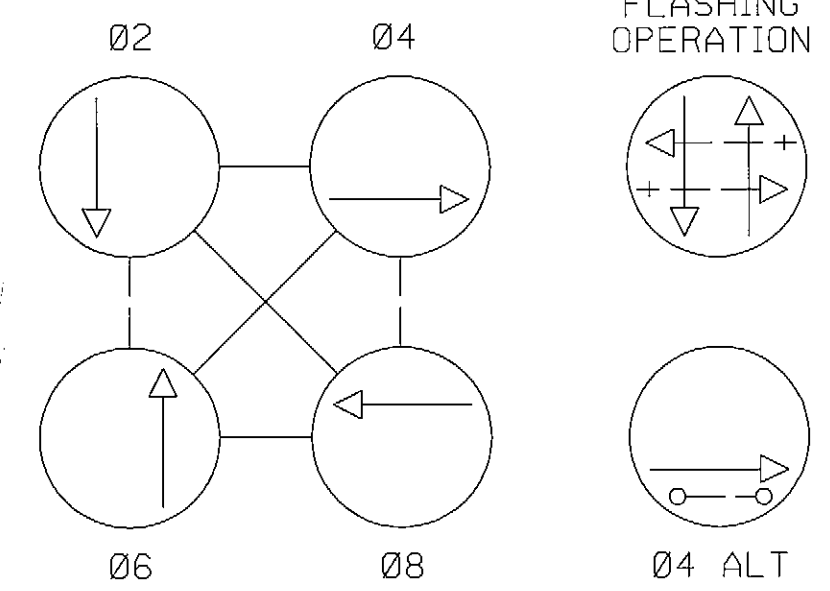
EXISTING ACCESSIBLE PUSHBUTTON AND SIGN



EXISTING SIGNS



NEMA PHASING



NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

PROJECT DESCRIPTION

GENERAL
THIS PROJECT INVOLVES THE INSTALLATION OF VIDEO DETECTION AND NON-INVASIVE SETBACK DETECTION AT THE INTERSECTION OF MD 31 AND UNIONTOWN ROAD IN CARROLL COUNTY. MD 31 IS ASSUMED TO RUN IN AN EAST - WEST DIRECTION.

INTERSECTION OPERATION
THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE.

CONTROLLER REQUIREMENTS

THE EXISTING CONTROLLER AND ASSOCIATED HARNESSES WILL REMAIN. SHA WILL INSTALL THE VIDEO DETECTION INTERFACE EQUIPMENT IN THE EXISTING BASE MOUNTED CABINET.

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

Mr. John Concannon
Assistant District Engineer - Traffic
Phones 301-624-8140

Ms. Andrea Abend
District Utility Engineer
Phones 301-624-8115

Mr. Ray Johnson
Assistant District Engineer - Maintenance
Phones 301-624-8105

Mr. Edward Rodenhizer
Chief, SHA Traffic Signal Shop
Phones 410-787-7650

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phones 410-787-7630

The Power Company Representative is:
Baltimore Gas & Electric
7317 Parkway Drive South
Hanover, MD 21076
Phones 410-859-9334

CONSTRUCTION DETAILS

- A. USE EXISTING BASE MOUNTED CABINET.
- B. USE EXISTING HANDHOLE.
- C. USE EXISTING CONDUIT.
- D. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED.
- E. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - BORED.
- F. INSTALL ELECTRICAL HANDHOLE.
- G. INSTALL NON-INVASIVE MICROLOOP PROBE WITH 500 FOOT LEAD-IN CABLE.
- H. INSTALL NON-INVASIVE MICROLOOP PROBE WITH 1000 FOOT LEAD-IN CABLE.
- J. INSTALL VIDEO DETECTION CAMERA ON EXISTING MAST ARM.
- K. ABANDON EXISTING LOOP DETECTOR.
- L. REMOVE EXISTING HANDHOLE.
- M. ABANDON EXISTING CONDUIT.

GENERAL NOTES

1. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATION.
2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MSHA STANDARD TYPICALS FOR TRAFFIC CONTROL.
3. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL CABLES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES. THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING.
5. THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
6. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.

UTILITY LEGEND

SD	SD	STORM DRAIN
G	G	GAS MAIN
W	W	WATER MAIN
S	S	SEWER MAIN
E	E	ELECTRIC CABLES
A	A	AERIAL CABLES
T	T	TELEPHONE CABLES
F	F	FIBER-OPTIC

RIGHT-OF-WAY LINE

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
9086	1 EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

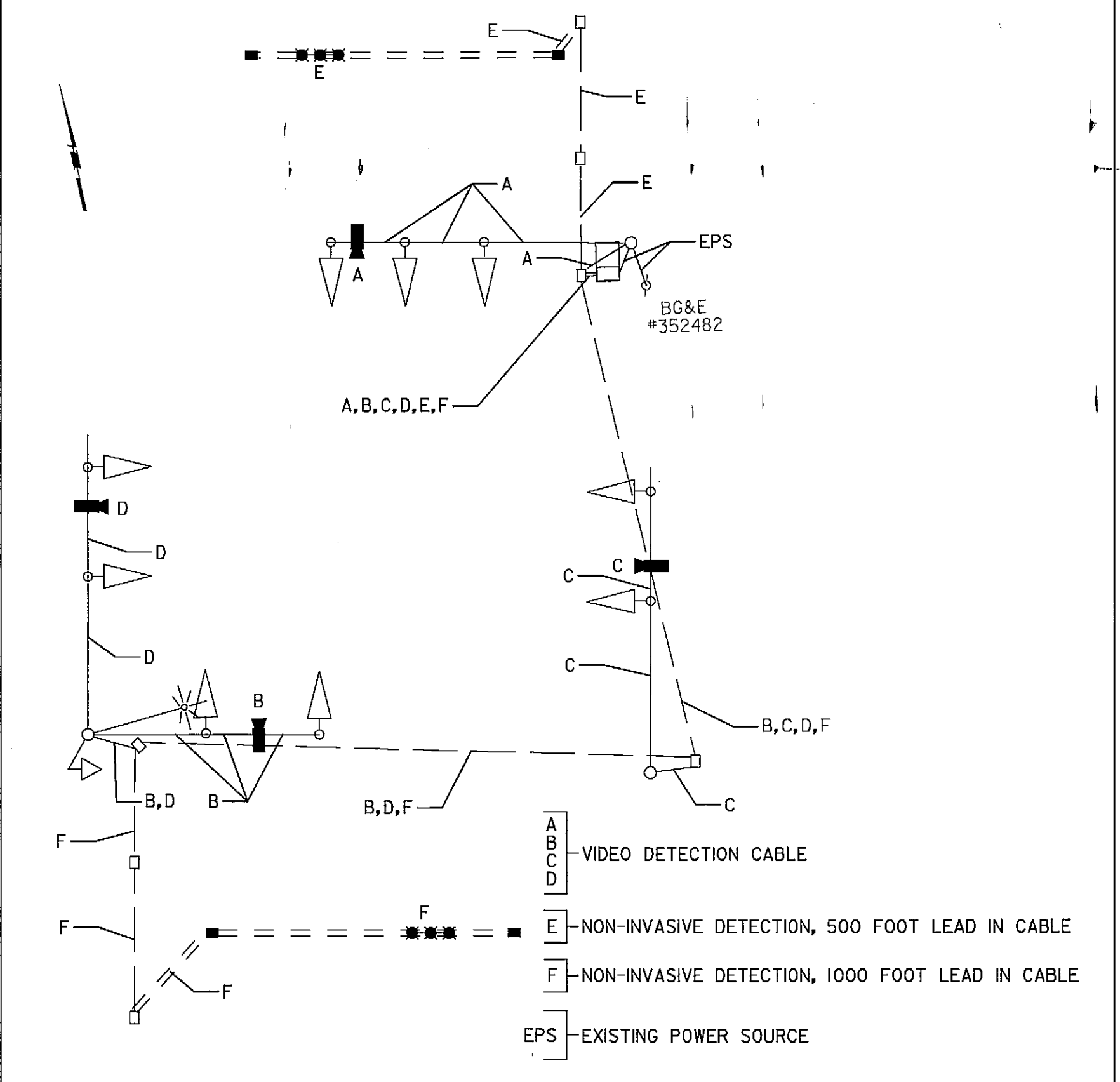
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
8006	1 EA	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT PER ASSIGNMENT
8007	4 EA	VIDEO DETECTION CAMERA AND CABLE
8010	110 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - BORED
8012	110 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - TRENCHED
8016	1 EA	NON-INVASIVE DETECTOR, 500 FOOT LEAD IN CABLE
8017	1 EA	NON-INVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
8018	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO.	QUANTITY	DESCRIPTION
NONE	-	ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



TOD NO: AX141-09
SHA NO: CL448A52/B52
MD 31 @ UNIONTOWN RD

SHA
STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 31 (NEW WINDSOR ROAD) AT UNIONTOWN ROAD

TRAFFIC SIGNALIZATION PLAN
SCALE 1"=20' DATE 06/03/08 CONTRACT NO. CL-726-501-785
DESIGNED BY COUNTY CARROLL
DRAWN BY J. GREEZICKI LOGMILE 06003109.79
CHECKED BY D. DODA T.I.M.S. NO. J552
F.A.P. NO. TOD NO.
DRAWING NO. TS-2465H SHEET NO. 1 OF 2

APPROVALS	REVISIONS
TEAM LEADER	(H) INSTALL VIDEO AND NON-INVASIVE DETECTION 2/2009 SHA # AX141-09
ASST. DIV. CHIEF	SDY G UPGRADE SIGNALS TO LED AND INSTALL APS 5/2007 SHA # AT9255185
DIVISION CHIEF	SDY F REINSTALL UNIONTOWN ROAD L.O.P.S. INSTALL PED SIGNALS CROSSWALK AND PUSHBUTTONS 3/2002
OFFICE DIRECTOR	MJA

PLOTTED: TUESDAY, FEBRUARY 10, 2009 AT 10:54 AM
FILE: J:\DATA\J552\DRAWINGS\PSG-P001.MD31.DGN.DGN